

FIGURE 1

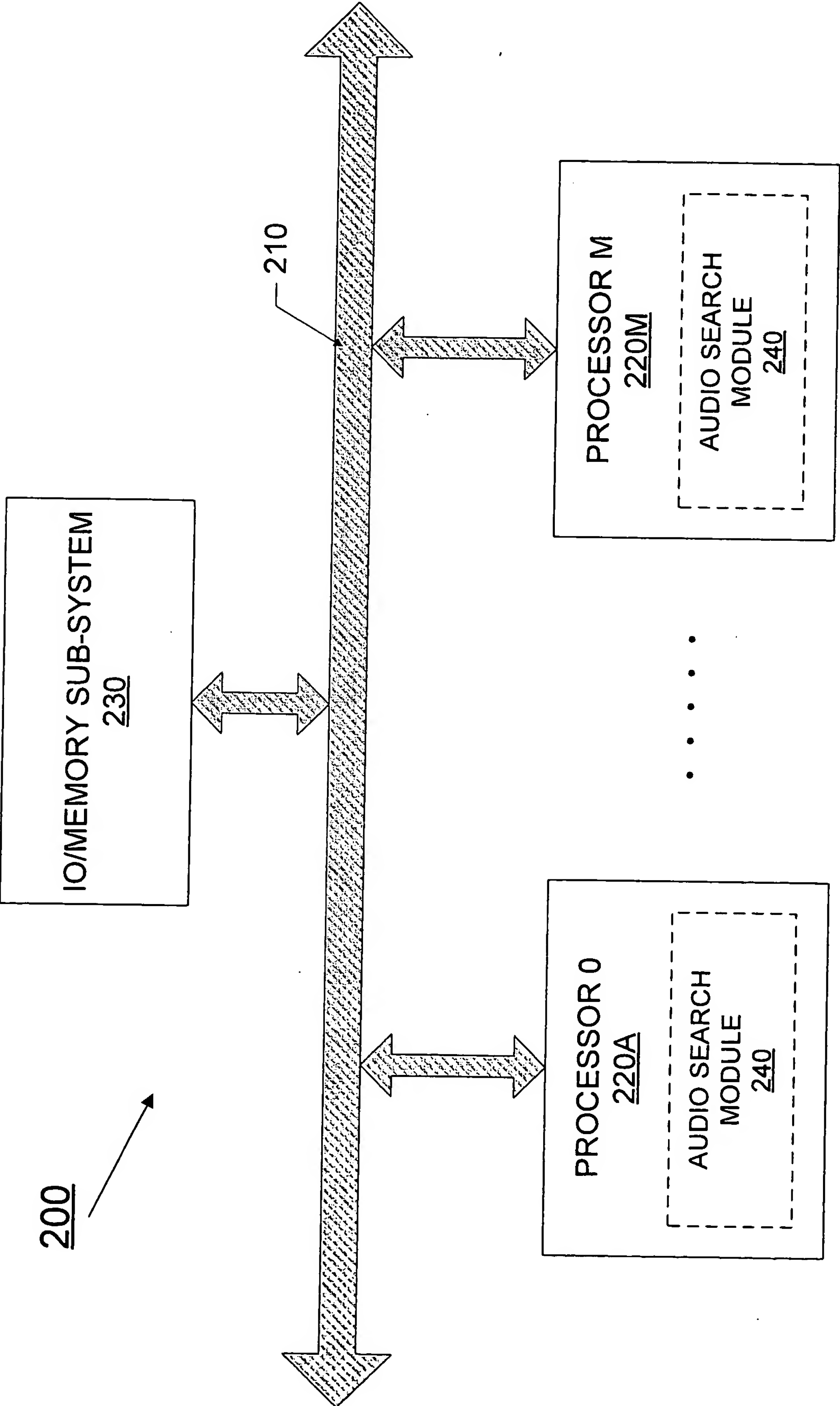


FIGURE 2

300

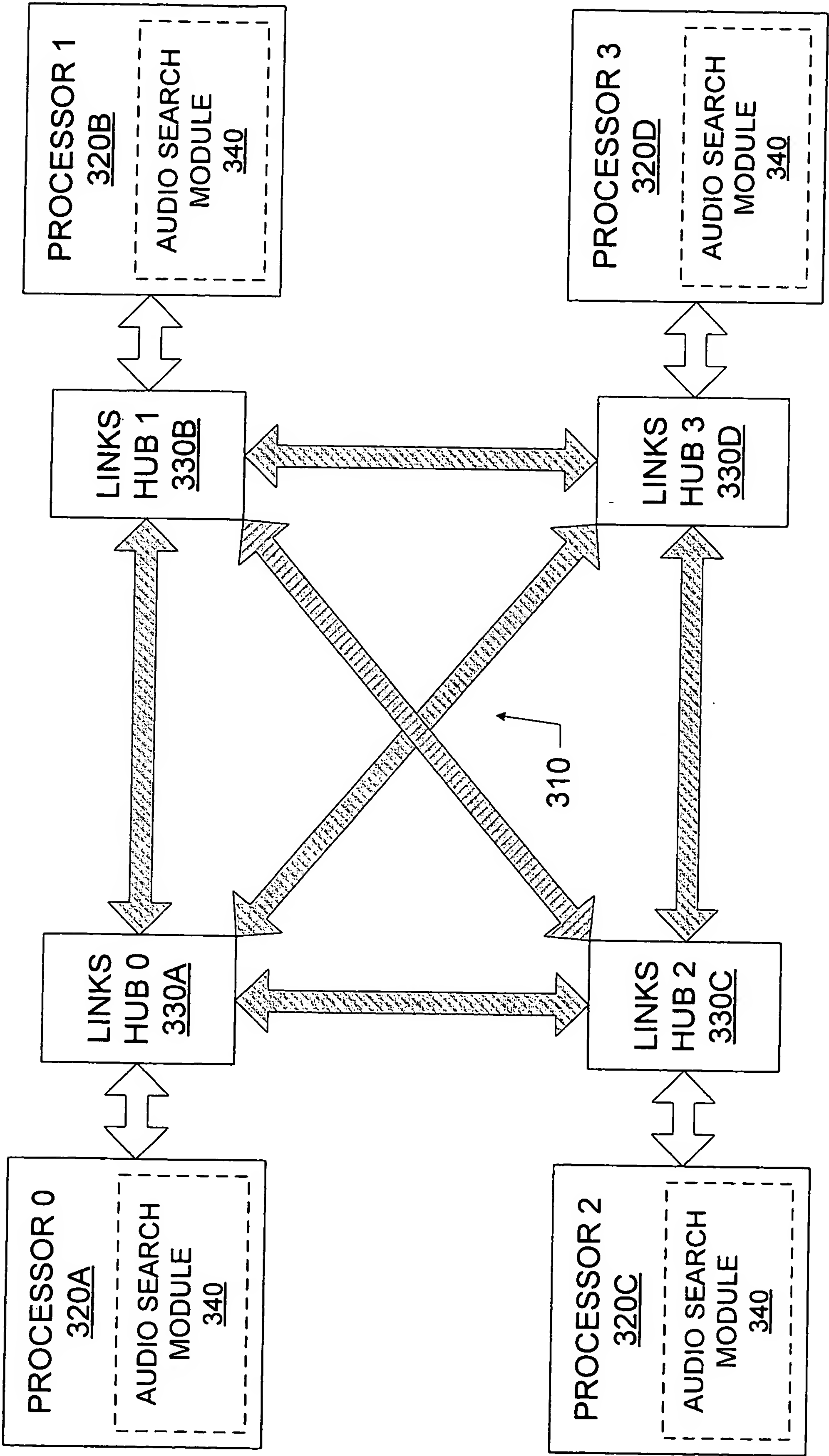


FIGURE 3

4/8

400

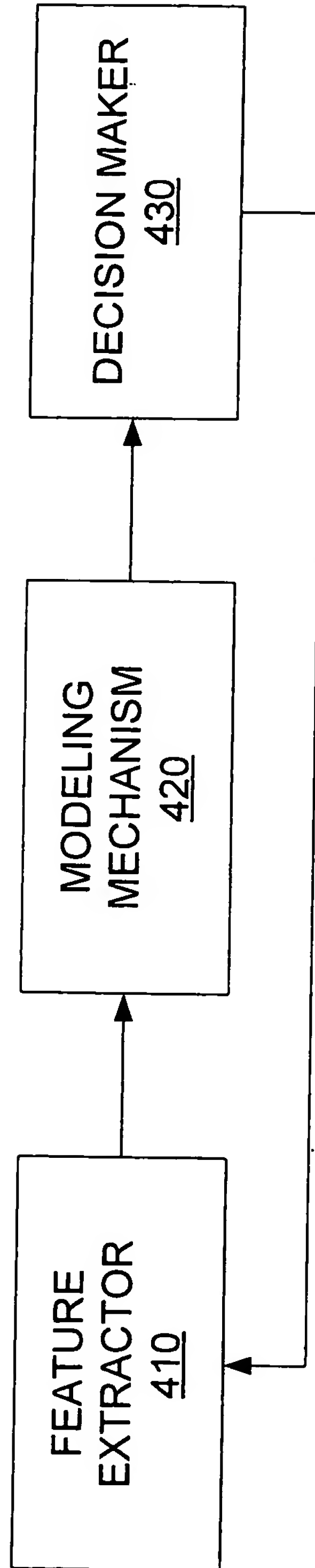


FIGURE 4

5/8

500

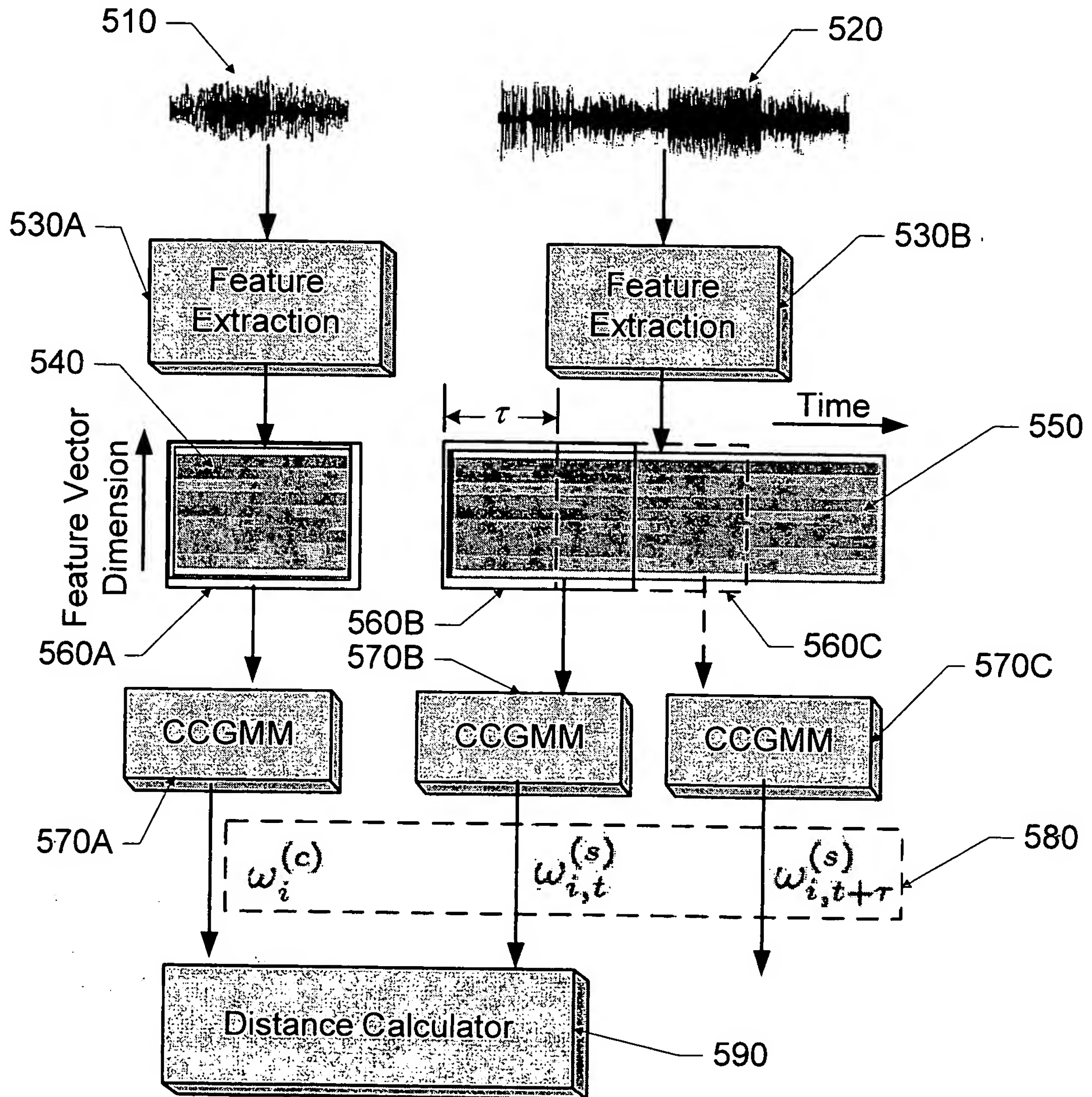


FIGURE 5

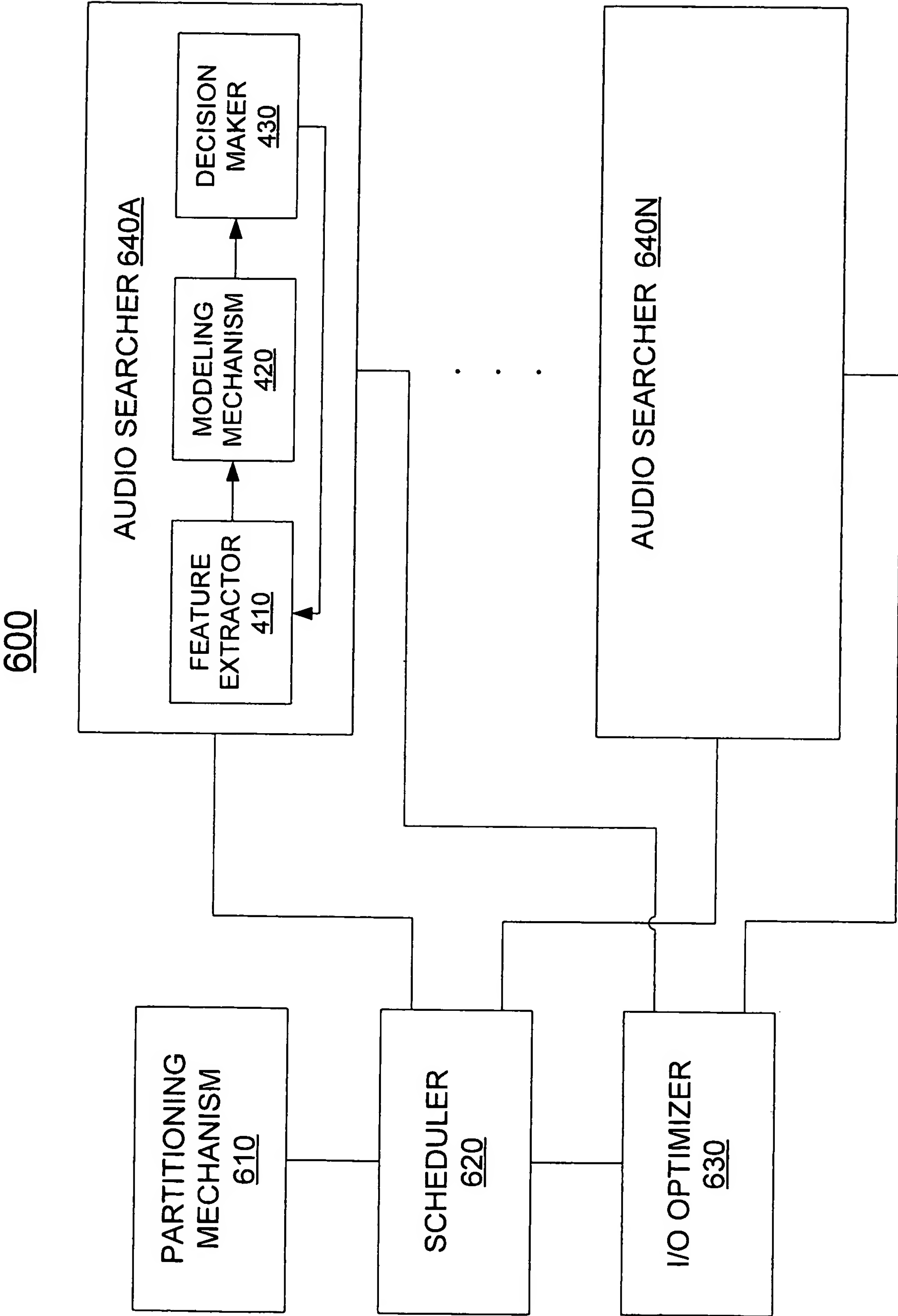


FIGURE 6

7/8

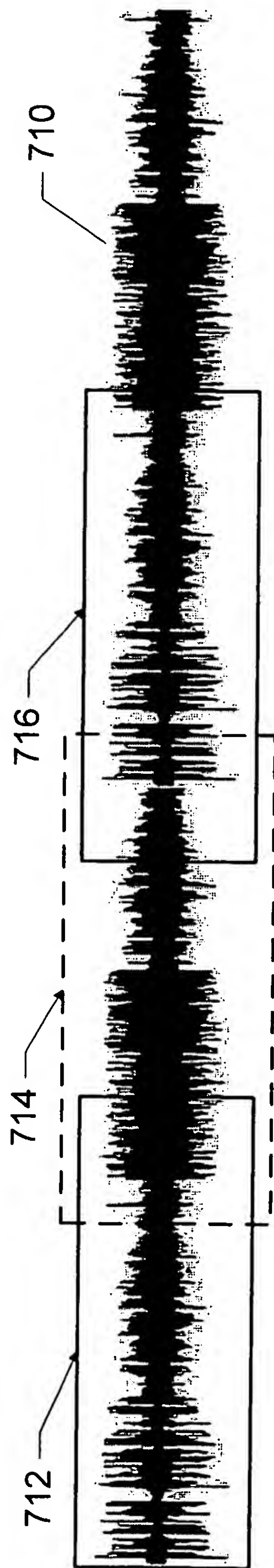


FIGURE 7A

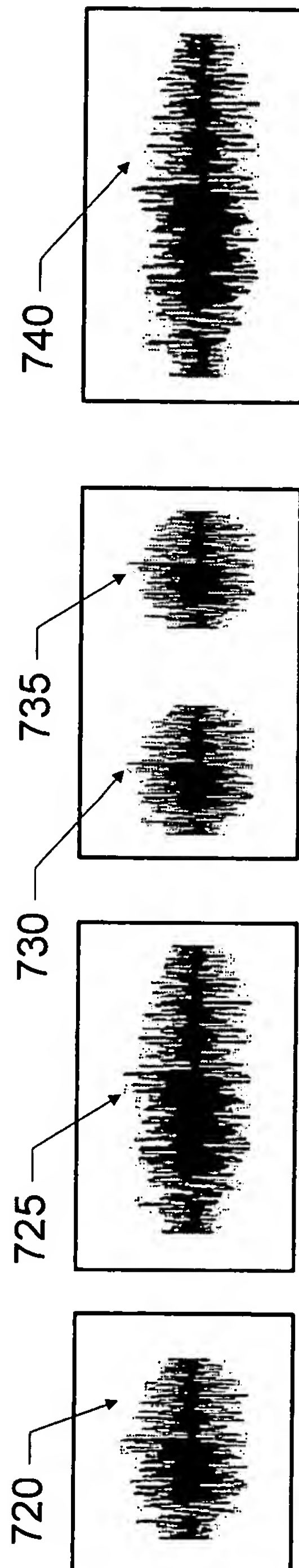


FIGURE 7B

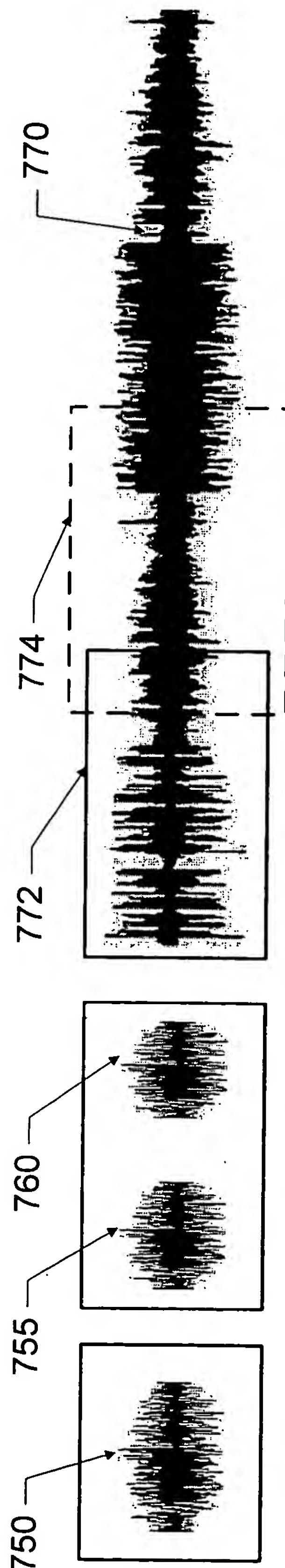


FIGURE 7C

8/8

800

```
802: Initialization;
804: Partition a large audio database into NG smaller groups;
806: Establish a model for target audio clip;
808: #pragma omp parallel for schedule(dynamic,1),
      num_threads(NumOfThread);
      /* dynamically schedule smaller groups to available processors and
      start parallel processing of the scheduled groups by multiple
      processors */
810: For groupid = 0 to NG-1
812: {
814:     Partition current group into NS partially overlapped
      segments, if necessary;
816:     For segmentid = 0 to NS-1
818:     {
820:         Extract a feature vector sequence;
822:         Establish a model for the segment;
824:         Compute distance between the model of each
      segment and the target audio clip model;
826:         If Distance < threshold #1, Match!
828:         else if Distance > threshold #2,
              Skip M segments in the same audio stream;
830:         Store results into an local array for the group;
832:     }
834: }
842: Output search results of local arrays from each processor ;
```

FIGURE 8